Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of the Claims

1.   (currently amended) A system that maintains synchronization between a video signal and an audio signal that are processed using audio and video clocks that are locked, the system comprising:

a component that determines an initial audio input buffer level;

a component that determines an amount of drift in the initial audio input buffer level and adjusts the audio and video clocks to maintain the initial audio input buffer level if the amount of drift reaches a first predetermined threshold; and

a component that measures a displacement of a video signal associated with the audio signal in response to the adjusting of the audio and video clocks and operates to negate the measured displacement of the video signal if the measured displacement reaches a second predetermined threshold.

2.   (previously presented) The system set forth in claim 1, wherein the initial audio input buffer level is stored in a memory.

3.   (previously presented) The system set forth in claim 1, wherein a clock recovery control is disabled if the amount of drift reaches the first predetermined threshold.

4.   (previously presented) The system set forth in claim 1, wherein the audio signal and the video signal comprise a Motion Picture Experts Group (MPEG) signal.

5.   (previously presented) The system set forth in claim 1, wherein the component that measures the displacement of the video signal associated with the audio signal operates to

negate the measured displacement of the video signal by re-initializing the measurement of the initial audio input buffer level.

6.   (previously presented) The system set forth in claim 1, wherein the component that measures the displacement of the video signal associated with the audio signal operates to negate the measured displacement of the video signal by dropping a frame of the video signal.

7.   (previously presented) The system set forth in claim 1, wherein the first predetermined threshold is about +/- 10 ms.

8.   (previously presented) The system set forth in claim 1, wherein the second predetermined threshold is about +/- 25 ms.

9.   (previously presented) The system set forth in claim 1, wherein the system comprises a portion of a television set.

10.   (previously presented) The system set forth in claim 9, wherein the television set comprises a High Definition Television (HDTV) set.

11.   (currently amended) A system that maintains synchronization between a video signal and an audio signal that are processed using audio and video clocks that are locked, the system comprising:
    means for determining an initial audio input buffer level;
    means for determining an amount of drift in the initial audio input buffer level;
    means for adjusting the audio and video clocks to maintain the initial audio input buffer level if the amount of drift reaches a first predetermined threshold;
    means for measuring a displacement of a video signal associated with the audio signal in response to the adjusting of the audio and video clocks; and

means for negating the measured displacement of the video signal if the measured displacement reaches a second predetermined threshold.

12.   (previously presented) The system set forth in claim 11, wherein the audio signal and the video signal comprise a Motion Picture Experts Group (MPEG) signal.

13.   (previously presented) The system set forth in claim 11, wherein the means for measuring the displacement of the video signal associated with the audio signal operates to negate the measured displacement of the video signal by re-initializing the measurement of the initial audio input buffer level.

14.   (previously presented) The system set forth in claim 11, wherein the means for measuring the displacement of the video signal associated with the audio signal operates to negate the measured displacement of the video signal by dropping a frame of the video signal.

15.   (currently amended) A method for maintaining synchronization between a video signal and an audio signal that are processed using audio and video clocks that are locked, the method comprising:

    determining an initial audio input buffer level;

    determining an amount of drift in the initial audio input buffer level;

    adjusting the audio and video clocks to maintain the initial audio input buffer level if the amount of drift reaches a first predetermined threshold;

    measuring a displacement of a video signal associated with the audio signal in response to the adjusting of the audio and video clocks; and

    negating the measured displacement of the video signal if the measured displacement reaches a second predetermined threshold.

16.   (previously presented) The method set forth in claim 15, comprising storing the initial audio input buffer level in a memory.

17. (previously presented) The method set forth in claim 15, comprising disabling a clock recovery control if the amount of drift reaches the first predetermined threshold.

18. (previously presented) The method set forth in claim 15, wherein the act of negating the measured displacement of the video signal comprises re-initializing the measurement of the initial audio input buffer level.

19. (previously presented) The method set forth in claim 15, wherein the act of negating the measured displacement of the video signal comprises dropping a frame of the video signal.

20. (previously presented) The method set forth in claim 15, wherein the recited acts are performed in the recited order.